

FIG. 1

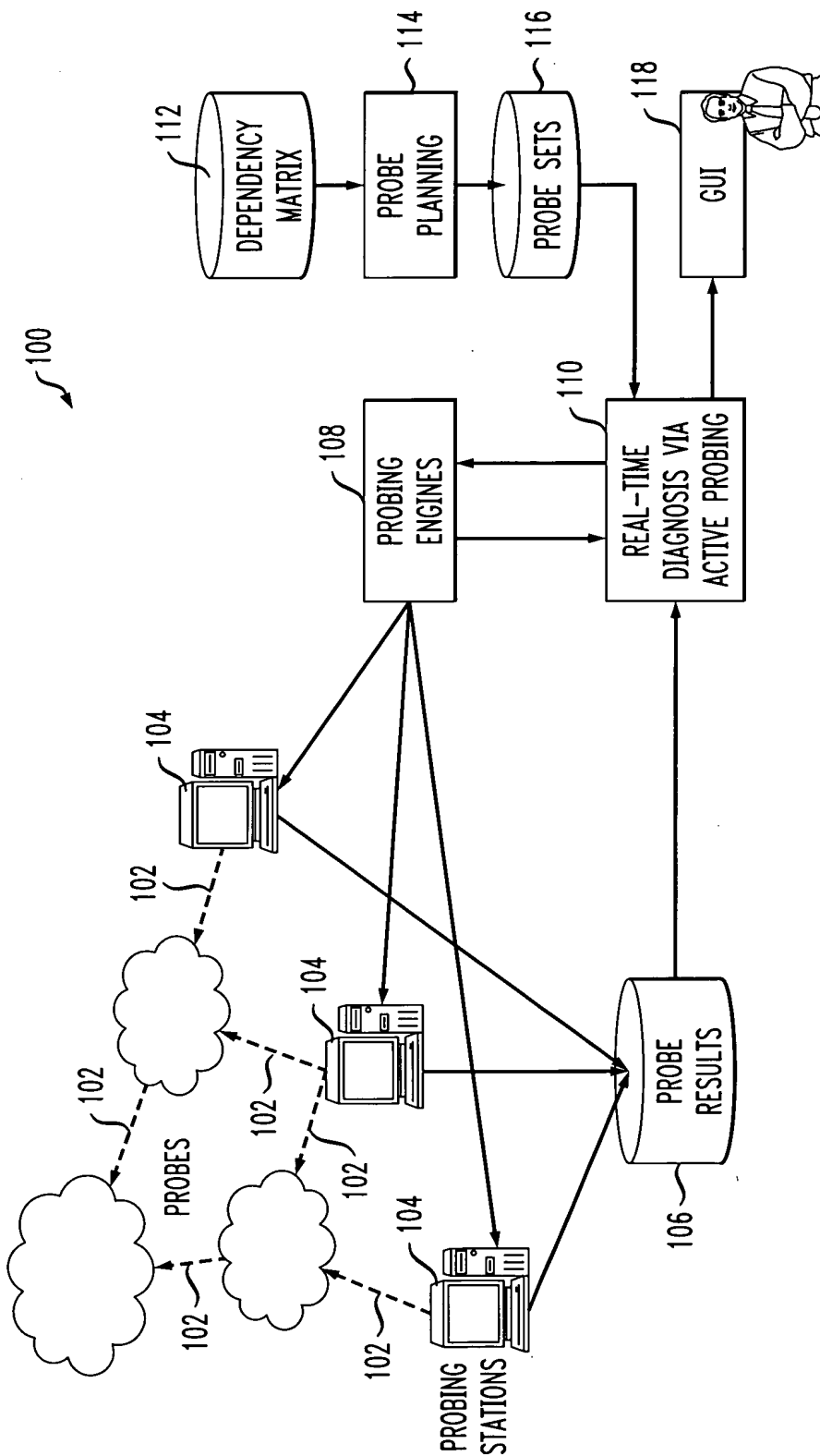


FIG. 2

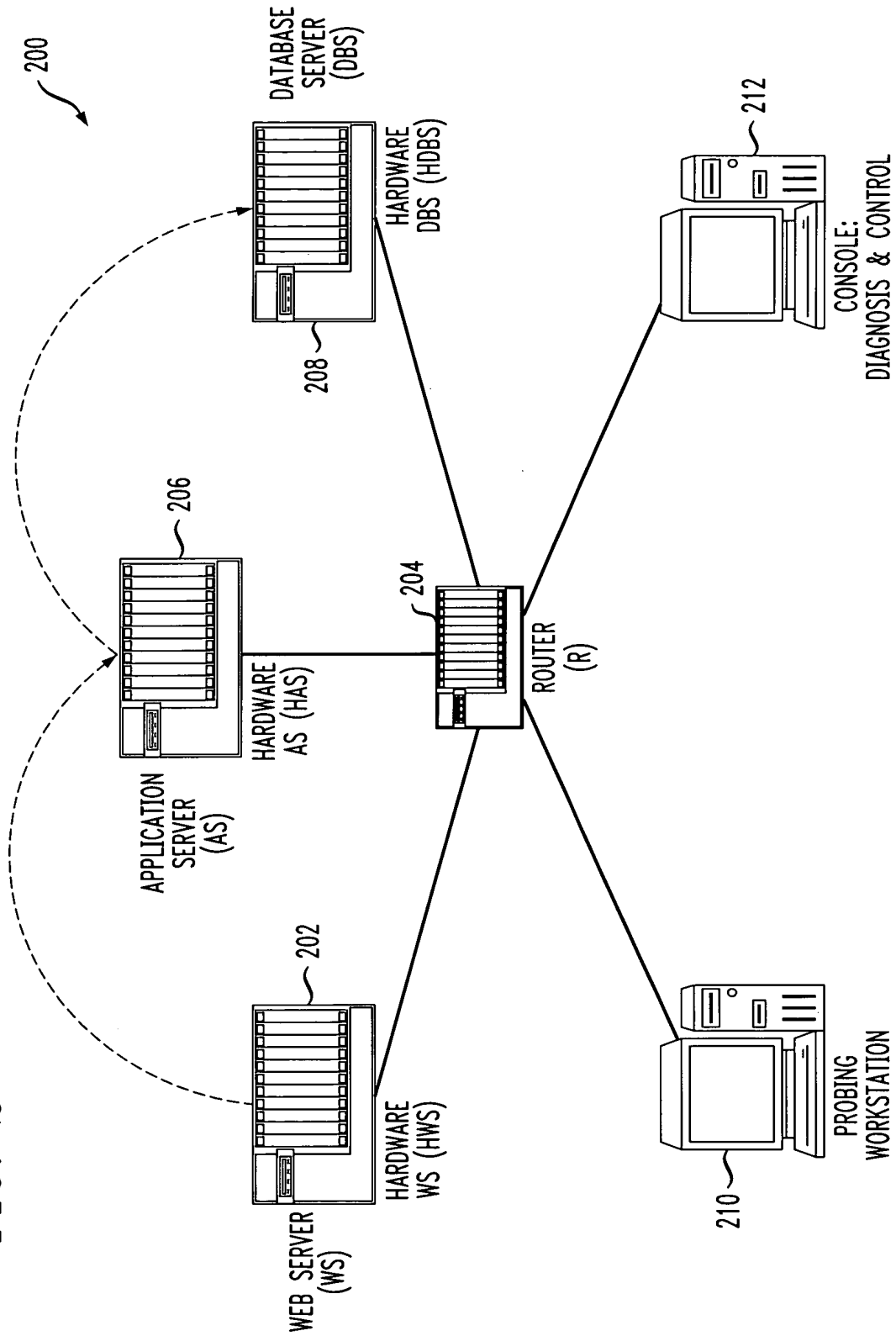


FIG. 3

DEPENDENCY MATRIX								
304	PROBLEM							
	PROBE	WS	AS	DBS	R	HWS	HAS	HDBS
	pWS	1	1	1	1	1	1	1
	pAS	0	1	1	1	0	1	1
	pDBS	0	0	1	1	0	0	1
	pingR	0	0	0	1	0	0	0
	pingWS	0	0	0	1	1	0	0
	pingAS	0	0	0	1	0	1	0
	pingDBS	0	0	0	1	0	0	1

PROBES:

pWS – WEB PAGE ACCESS
pAS – APPLICATION SERVER ACCESS
pDBS – DATABASE QUERY
pingR – PING ROUTER
pingWS – PING WEB SERVER
pingAS – PING APPLICATION SERVER
pingDBS – PING DATABASE SERVER

FIG. 4

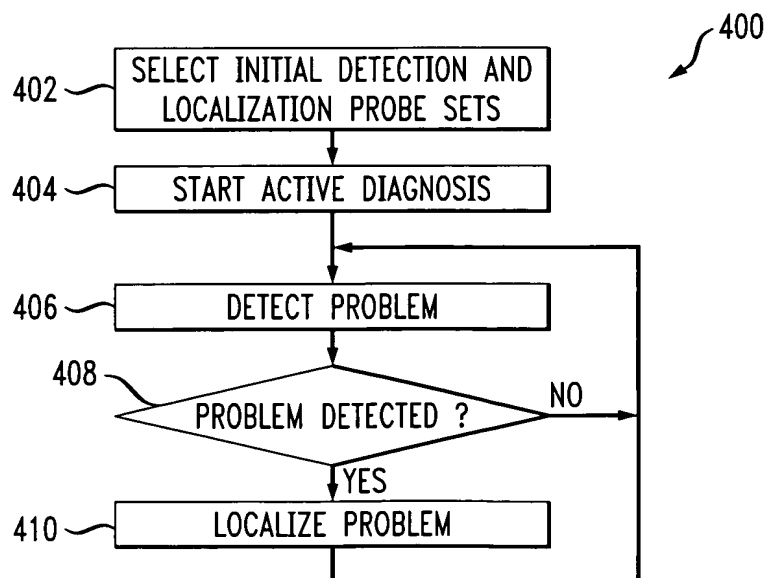


FIG. 5

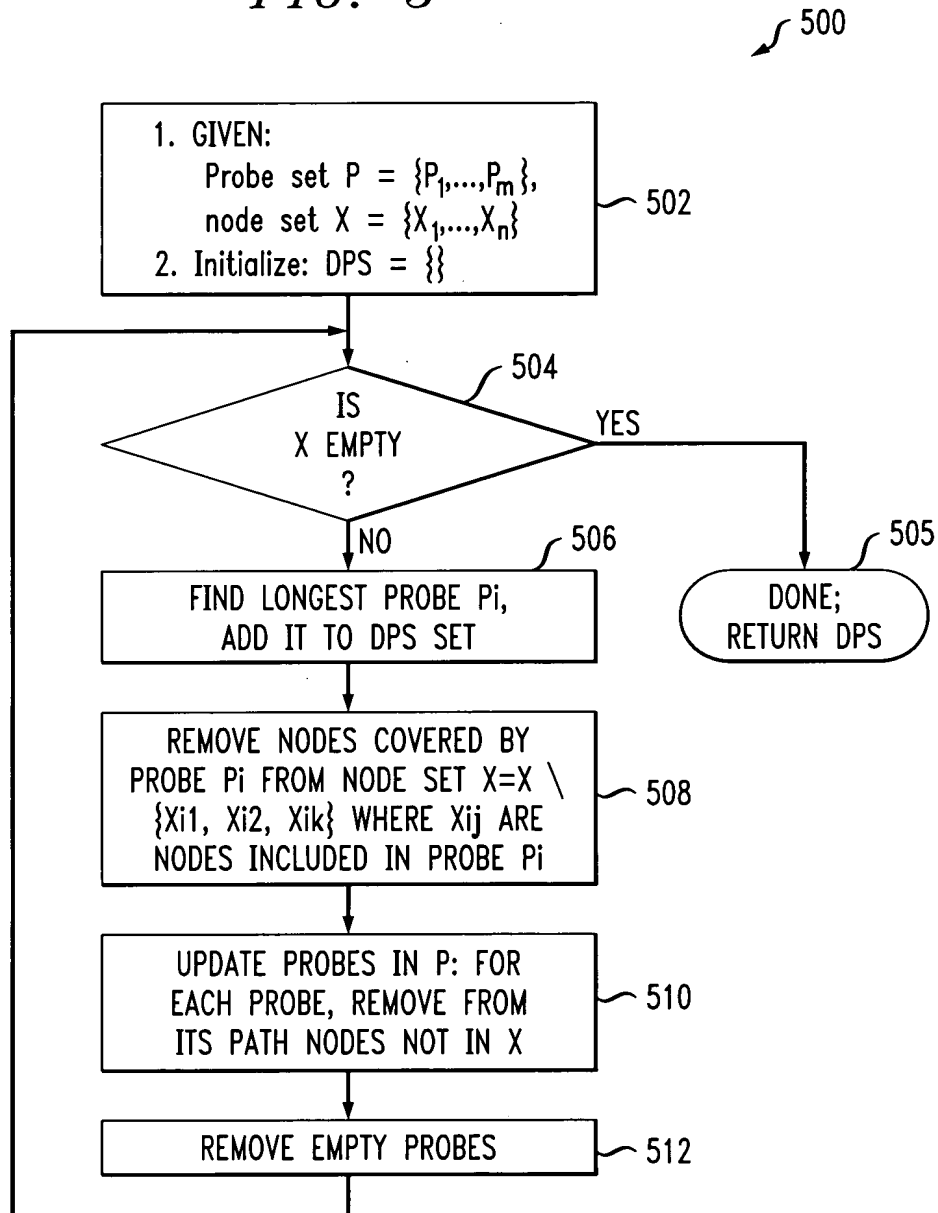


FIG. 6

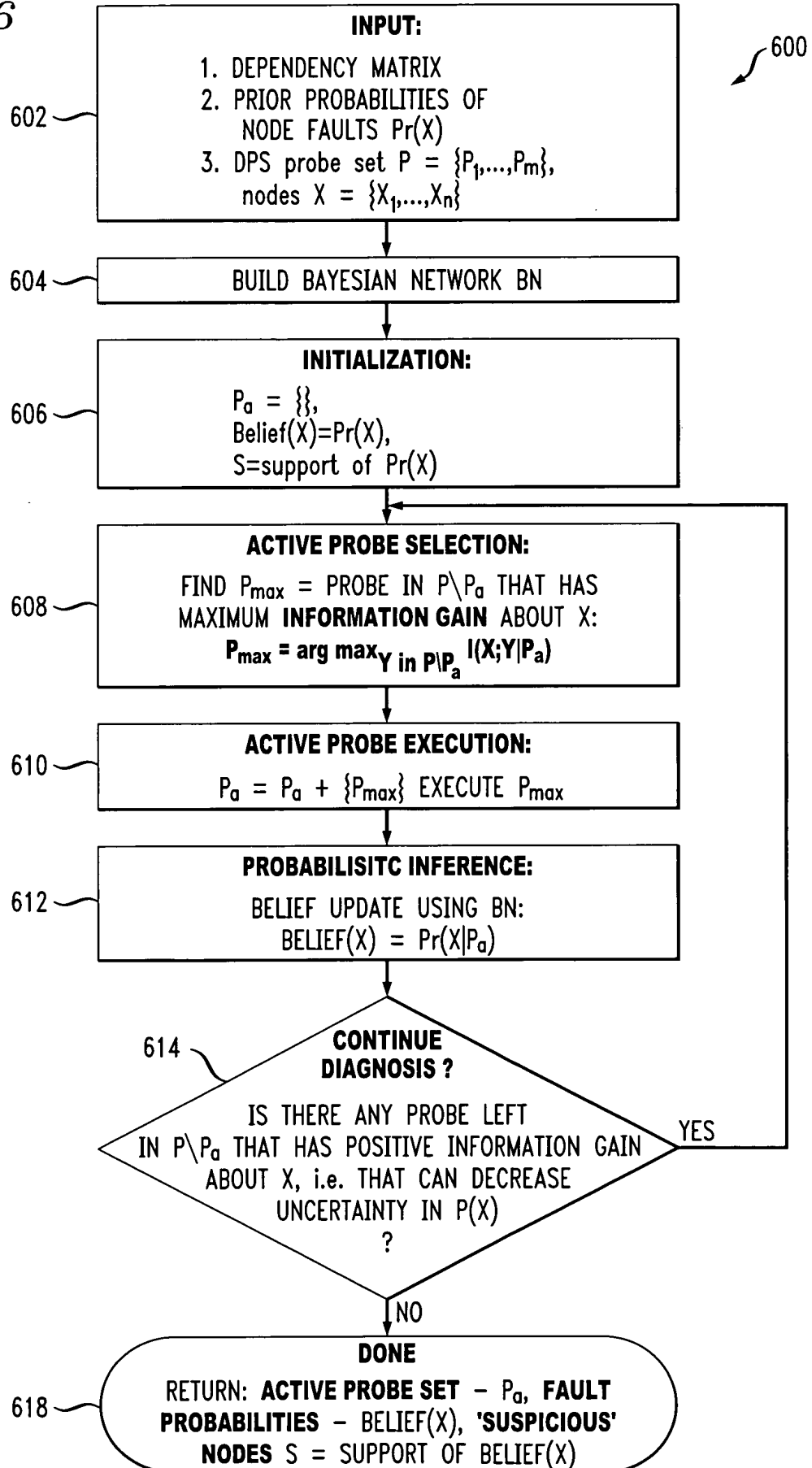
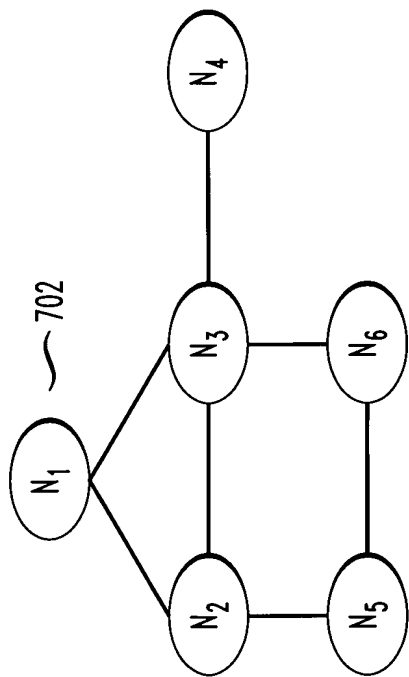


FIG. 7



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$$X_i = \begin{cases} 1 & \text{if } N_i \text{ is OK,} \\ 0 & \text{otherwise} \end{cases}$$

$$P_j = \begin{cases} 1 & \text{if Probe}_j \text{ is OK,} \\ 0 & \text{otherwise} \end{cases}$$

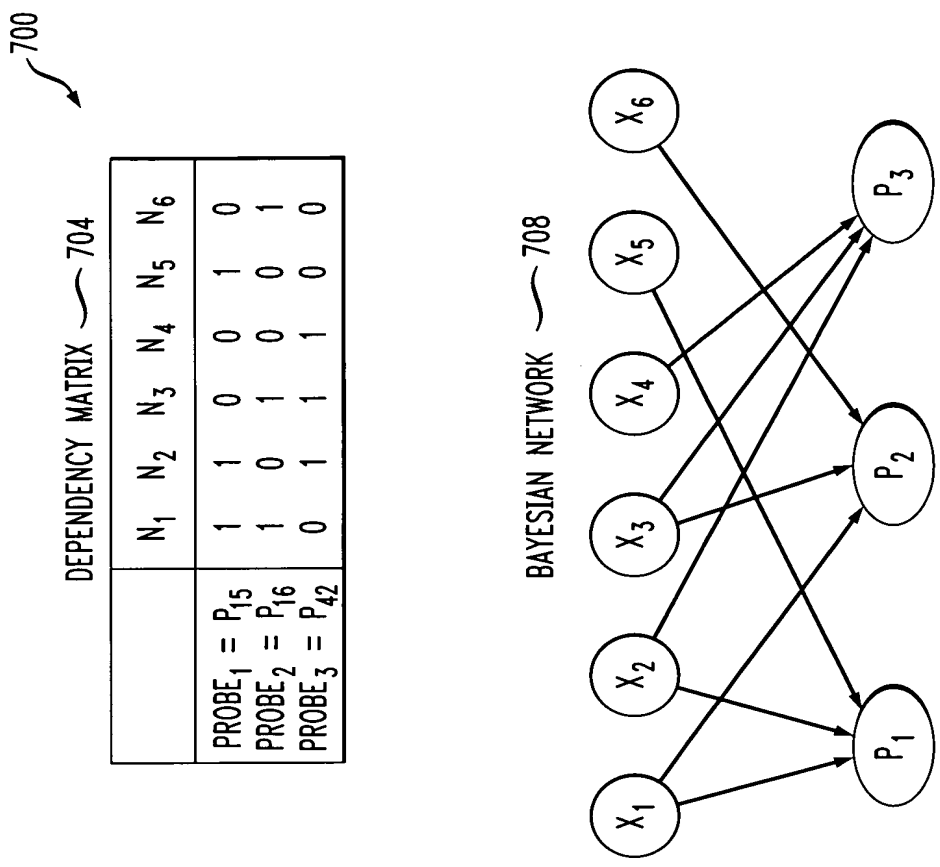


FIG. 8

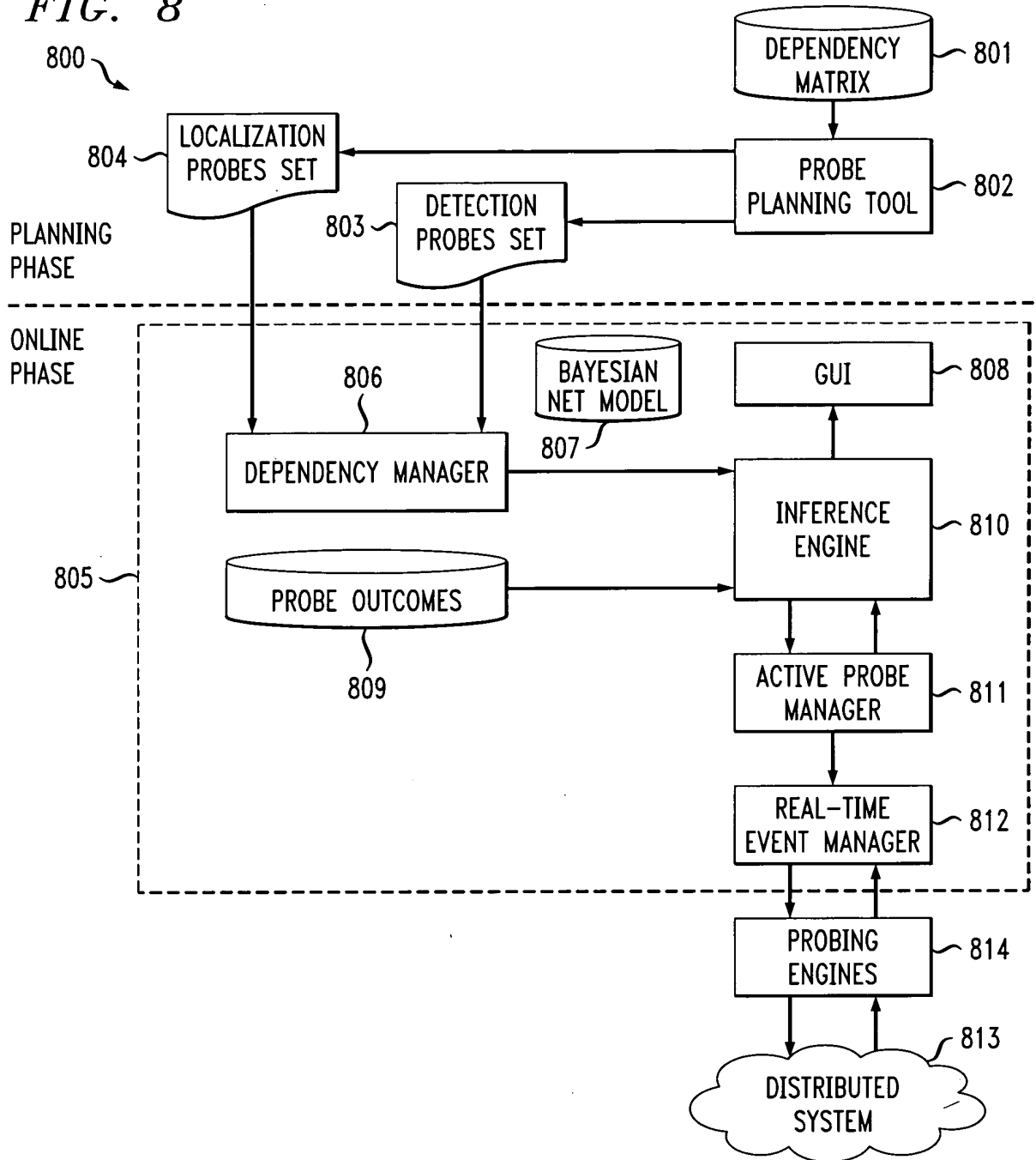


FIG. 9

